

# Notic of Allowability

Applicati n N .

09/997,230

Examiner

CHAMELI C DAS

Applicant(s)

SHANN, RICHARD

Art Unit

2122

-- The MAILING DATE of this communicati n appears on th c ver sheet with the corresp ndence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the remarks filed on 9/27/2004.
2. ☒ The allowed claim(s) is/are 1-15.
3. ☒ The drawings filed on 25 March 2002 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☒ All b) ☐ Some\* c) ☐ None of the:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachm nt(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 1/7/05.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

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1. This action is in response to the remarks filed on 9/27/04.
2. Claims 1-15 have been allowed.

### EXAMINER'S AMENDMENT

3. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. James H. Morris, Attorney for the Applicant on 1/7/05.

The application has been amended as follows:

Claim 15 has been amended as follows:

-- A toolchain for forming a target executable program from a plurality of source code modules, each source code module comprising program instructions or data and assembler directives, the toolchain comprising:

an include source code module comprising a plurality of compound relocation definition sequences, each compound relocation definition sequence comprising a compound relocation indicator and a [[first]] sequence of relocation instructions:

an assembler for assembling said plurality of source code modules and said include source code module to form a plurality of object code modules; [[and]]

means for reading assembler source code from said source code module, said source code generating an associated sequence of relocation instructions for executing the directive;

means for determining if said associated sequence of relocation matches the sequence of relocation instructions; and

if a match of relocation sequences is determined, means for inserting into said object code module a compound relocation instruction including the compound relocation indicator of said matched compound relocation sequence definition instruction and said matched sequence; and

a linker for linking said object code modules to form the target executable program. --

#### **REASON FOR ALLOWANCE**

4. The following is an examiner's statement of reasons for allowance:

The cited prior art taken alone or in combination fail to teach, in combination with the other claimed limitations, a method for generating relocation instructions in the object code module, the method comprising: determining if the generated sequence of relocation instructions matches one of stored sequence of relocation instructions; and if a match of relocation sequences is determined, inserting into said object code module a compound relocation including the compound relocation indicator of said matched compound relocation sequence definition instruction and said matched sequence, as recited in the independent claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reason for Allowance".

***Conclusion***

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

TITLE: Method of relocating file and system therefor, US 5355475 A

TITLE: Linker using relocation sequences, US 6802060 B1

TITLE: Relocation format for linking, US 6704928 B1

TITLE: Position independent code location system, US 5504901 A

TITLE: Execution program generation method, execution program generation apparatus, execution program execution method, and computer-readable storage medium, US 6715142 B1

TITLE: Data Relocation and Prefetching for Programs with Large Data Sets, author: Yamada et al, ACM, 1994.

TITLE: Relocating Machine Instructions by Curryng, author: Ramsey, ACM, 1996.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chameli Das whose telephone number is 571-272-3696. The examiner can normally be reached on Monday-Friday from 6:30 A.M. to 3:00 P.M.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Tuan Dam can be reached at 571-272-3695. The fax number for this group are:

(703) 746-7239 (official fax), (703) 746-7240 (non-official/draft), (703) 746 -7238 (after final).

An inquiry of general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is 703-305-9600.

*Chameli C-D on*  
**CHAMELI C. DAS**  
**PRIMARY EXAMINER**

*1/7/05 -*